AMENDMENTS TO THE CLAIMS

1. (Currently amended) An audio encoder including dividing means for dividing an input signal into a plurality of frequency bands and outputting a plurality of sub-band signals, and performing compression-encoding for the individual sub-band signals outputted from said dividing means, wherein said audio encoder further comprises bit-allocating means,

said bit-allocating means performing weighting in conformity to an equalloudness curve that connects points representing pressure values of sounds having the same auditory loudness level for each frequency of the individual sub-band signals, and performing bit allocation to equalize a weighted quantization error in the individual subband signals, wherein the bit allocation is performed using a weighting table.

2. (Currently amended) An audio encoder according to claim 1, wherein said bit-allocating means comprises a memory unit, and

said memory unit stores [[a]] the weighting table, the weighting table specifying weighting coefficients conforming to said equal-loudness curve for the individual sub-band signals.

3. (Currently amended) An audio encoder according to claim 2, wherein said memory unit further stores [[a]] the weighting table specifying weighting coefficients corresponding to encoding bit rates, and

said bit-allocating means performs bit allocation to equalize a weighted quantization error corresponding to the encoding bit rate in the individual sub-band signals.

4. (Previously presented) An audio encoder according to claim 3, wherein

said memory unit stores a plurality of weighting tables corresponding to the encoding bit rates, and

said bit-allocating means selectively uses an appropriate one of said plurality of weighting tables.

- 5. (Previously presented) An audio encoder according to one of claims 1 to 4, wherein an audio-encoding method uses a psychoacoustic analysis incorporating the consideration of auditory-sense characteristics, such as limitations of human auditory capability and masking effects.
 - 6. (Currently amended) An audio encoder comprising:

a sub-band dividing unit for dividing an input signal into a plurality of frequency bands and outputting a plurality of divided sub-band signals;

a scaling unit for calculating scaling factors for the individual sub-band signals to uniformly adjust dynamic ranges thereof, said scaling factors representing a magnification from a reference value;

an auditory-sense-analysis bit allocating unit for performing weighting conforming to an equal-loudness curve for the individual sub-band signals and then calculating the amount of bit allocation to equalize a weighted quantization error in the individual sub-band signals, wherein the bit allocation is performed using a weighting table;

a quantization unit for performing quantization calculations for the individual sub-band signals to which bits were allocated; and

a bitstream generating unit connected to said quantization unit to generate and output a bitstream as encoded audio data together with header and auxiliary information.

7. (Currently amended) A psychoacoustic analyzing method to be used with an audio encoder that comprises a sub-band dividing means for dividing an input signal into a plurality of frequency bands and outputs a plurality of divided sub-band signals and that performs compression-encoding for the individual sub-band signals divided by said sub-band dividing means, comprising the steps of:

performing weighting in conformity to an equal-loudness curve that connects points representing pressure values of sounds having the same auditory loudness level for each frequency of the individual sub-band signals; and

performing bit allocation to equalize a weighted quantization error in the individual sub-band signals, wherein the bit allocation is performed using a weighting table.

- 8. (Currently amended) A psychoacoustic analyzing method according to claim 7, wherein said step of performing bit allocation performs bit allocation for the individual sub-band signals according to the contents of [[a]] the weighting table specifying weighting coefficients.
- 9. (Currently amended) A psychoacoustic analyzing method according to claim 8, wherein said step of performing bit allocation performs bit allocation according to the contents of [[a]] the weighting table, the weighting specifying weighting coefficients corresponding to encoding bit rates to equalize a weighted quantization error corresponding to the encoding bit rate in the individual sub-band signals.
- 10. (Previously presented) A psychoacoustic analyzing method according to claim 9, wherein a plurality of weighting tables corresponding to the encoding bit rates are provided, and an appropriate one of said plurality of weighting tables is selectively used.
- 11. (Previously presented) A psychoacoustic analyzing method according to one of claims 7 to 10, wherein said psychoacoustic analyzing method is applied to an audio-encoding method incorporating the consideration of human-auditory-sense characteristics.

12. (New) An audio encoder including dividing unit for dividing an input signal into a plurality of frequency bands and outputting a plurality of sub-band signals, and performing compression encoding for the individual sub-band signals outputted from said dividing-unit, wherein said audio encoder further comprises a bit-allocating unit,

said bit-allocating unit performing weighting in conformity to an equal-loudness curve that connects points representing pressure values of sounds having the same auditory loudness level for each frequency of the individual sub-band signals, and performing bit-allocation to allow a sub-band signal having a frequency band that is most humanly perceptible to be allocated with the largest number of bits.